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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,165	04/16/2004	Anuthep Benja-Athon	ABA0412	8281

7590 02/13/2007
ANUTHEP BENJA-ATHON, M.D.
Pain Management
Acupuncture Physical Therapy
210 E 36th St.
New York, NY 10016

EXAMINER

HOEKSTRA, JEFFREY GERBEN

ART UNIT	PAPER NUMBER
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3736

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/825,165

Applicant(s)

BENJA-ATHON, ANUTHEP

Examiner

Jeffrey G. Hoekstra

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 January 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on n/a is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I, drawn to claims 1-19, in the reply filed on 01/04/2007 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
2. Claim 20 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 01/04/2007.

Drawings

3. The subject matter of this application admits of illustration by a drawing to facilitate understanding of the invention. Applicant is required to furnish a drawing under 37 CFR 1.81(c). No new matter may be introduced in the required drawing. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d).

Claim Objections

4. Claims 1 and 19 are objected to because of the following informalities: the positive recitation of "comprising," in line 2 may be a typographical error and the

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Examiner notes it should positively recite "comprising:". Appropriate correction is required.

5. Claims 4 and 5 are objected to because of the following informalities: the positive recitation of "The plurality of muscles according to claim 3" in line 1 is an incorrect preamble, may render the claim indefinite, and the Examiner notes it should positively recite "The method according to claim 3". Appropriate correction is required.

6. Claim 7 is objected to because of the following informalities: the positive recitation of "The data means according to claim 6" in line 1 is an incorrect preamble, may render the claim indefinite, and the Examiner notes it should positively recite "The method according to claim 6". Appropriate correction is required.

7. Claims 12-18 are objected to because of the following informalities: the positive recitation of "The formula means for rehabilitating according to claim" in line 1 is an incorrect preamble, may render the claim indefinite, and the Examiner notes it should positively recite "The method according to claim". Appropriate correction is required.

Claim Rejections - 35 USC § 112

8. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

9. Claims 11-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to enable one skilled in the art to

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which it pertains, or with which it is most nearly connected, to make and/or use the invention. The positively claimed measurement of anatomical lengths and angles; the measurement of forces, torques, stresses, strains, and sprains; the nonsurgical treatment means; the data means for risk estimation; and formulas critical or essential to the practice of the invention is not enabled by the disclosure. The rationale for considering the omitted material critical or essential is that the means by which the method of preventing/treating intervertebral disc herniation and related disorders in vertebral animals is performed requires the measurement of anatomical lengths and angles; the measurement of forces, torques, stresses, strains, and sprains; the nonsurgical treatment means; the data means for risk estimation; and formulas critical or essential to the practice of the invention.

10. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

11. Claims 11-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

12. Claims 11-19 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are at least the following: (a) how and when the measurement of anatomical lengths, angles, forces, torques, stresses, strains, and sprains occurs; (b) how the nonsurgical treatment means is performed; (c) how and

when the data means gathers data and/or estimates risk; and (e) how, when, and what formulas are used to calculate and/or analyze prevention and/or treatment of intervertebral disc herniation and related disorders in vertebral animals.

13. Claims 11-19 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph. The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure that goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. Note the format of the claims in the patent(s) cited.

Claim Rejections - 35 USC § 101

14. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

15. Claims 11-19 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claimed invention is directed to a judicial exception to 35 U.S.C. 101, an abstract idea and transformations thereof, and is not directed to a practical application of such judicial exception because the claim does not require any physical transformation and the invention as claimed does not produce a useful, concrete, and tangible result.

Claim Rejections - 35 USC § 102

16. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

17. Claims 11-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Guimond et al. (US 6,514,219 B1, hereinafter Guimond) as broadly as *structurally* claimed. Guimond discloses a method of treatment and prevention of intervertebral disc herniation and related disorders in vertebral animals, comprising: obtaining biomechanical data for gathering at least length and angle measurement data (abstract), force and torque data (column 14 lines 43-53), and stress data (column 4 lines 1-5); analyzing said data and processing it according to various formulas (column 14 line 55 – column 15 line 67 and Table 4); and identifying and providing nonsurgical treatment to specific bodily regions based on said biomechanical data (as best seen in Figures 9 and 13-16).

Conclusion

18. The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Lepley (US 5,324,247), McGregor et al (US 5,891,060), and Gracovetsky et al (US 5,022,412) disclose methods of gathering biomechanical data, analyzing the data, and evaluating the biomechanical condition of vertebral animals.

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19. An examination of this application reveals that applicant is unfamiliar with patent prosecution procedure. While an inventor may prosecute the application, lack of skill in this field usually acts as a liability in affording the maximum protection for the invention disclosed. Applicant is advised to secure the services of a registered patent attorney or agent to prosecute the application, since the value of a patent is largely dependent upon skilled preparation and prosecution. The Office cannot aid in selecting an attorney or agent.

A listing of registered patent attorneys and agents is available on the USPTO Internet web site <http://www.uspto.gov> in the Site Index under "Attorney and Agent Roster." Applicants may also obtain a list of registered patent attorneys and agents located in their area by writing to the Mail Stop OED, Director of the U. S. Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450

20. This application may qualify for "Small Entity Status" and, therefore, applicant may be entitled to the payment of reduced fees. In order to establish small entity status for the purpose of paying small entity fees, applicant must make a determination of entitlement to small entity status under 37 CFR 1.27(f) and make an assertion of entitlement to small entity status in the manner set forth in 37 CFR 1.27(c)(1) or 37 CFR 1.27(c)(3). Accordingly, if applicant meets the requirements of 37 CFR 1.27(a), applicant must submit a written assertion of entitlement to small entity status under 37 CFR 1.27(c) before fees can be paid in the small entity amount. See 37 CFR 1.27(d). The assertion must be signed, clearly identifiable, and convey the concept of

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entitlement to small entity status. See 37 CFR 1.27(c)(1). No particular form is required.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey G. Hoekstra whose telephone number is (571) 272-7232. The examiner can normally be reached on Monday through Friday, 8:00 a.m. to 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max F. Hindenburg can be reached on (571) 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



JH

